

## COST Action FA1401

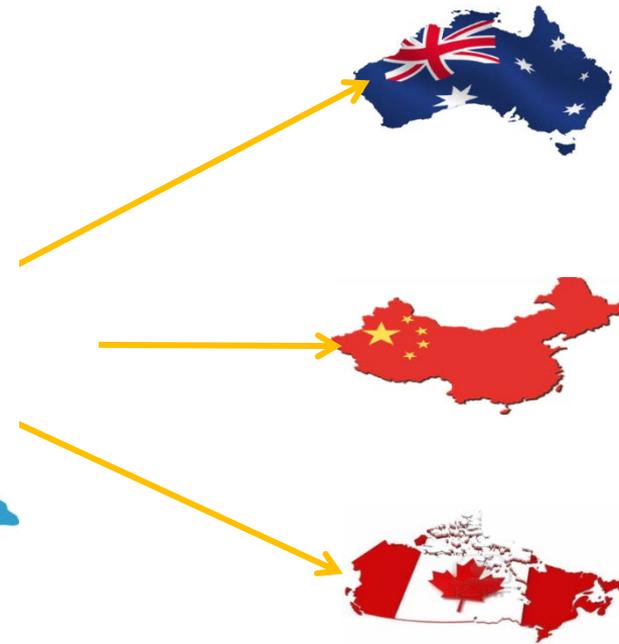
# European network on the factors affecting the gastro-intestinal microbial balance and the impact on the health status of pigs (PiGutNet)



COST is supported by  
the EU Framework Programme  
Horizon 2020

# The PiGutNet network

22 EU  
countries



- ✓ 49 Research Institutions
- ✓ 10 companies
- ✓ 5 breeders associations
- ✓ (EAAP)

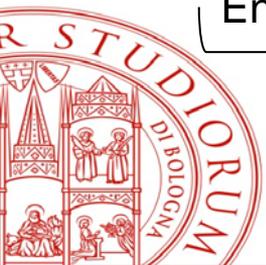
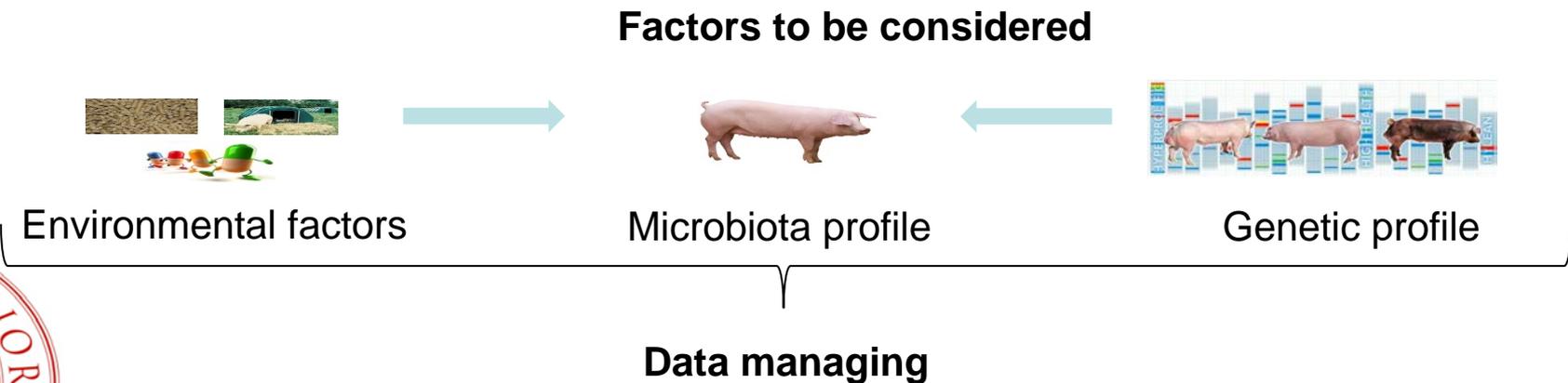
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- ✓ 3 extra-EU countries
- 3 Research institutions



# The main objective of the Action

Increase the knowledge about the effect/interaction of environmental and genetic factors on the composition of the microbiota in the gastrointestinal tract of pigs and to improve the risk management associated with antibiotic resistance in pig production



# SCIENTIFIC FOCUS

Factors affecting the gastro-intestinal microbial balance

## 4 GAPS TO CONSIDER:

Gap 1

- **Molecular microbiology**

Gap 2

- **Environment and host genetic**

Gap 3

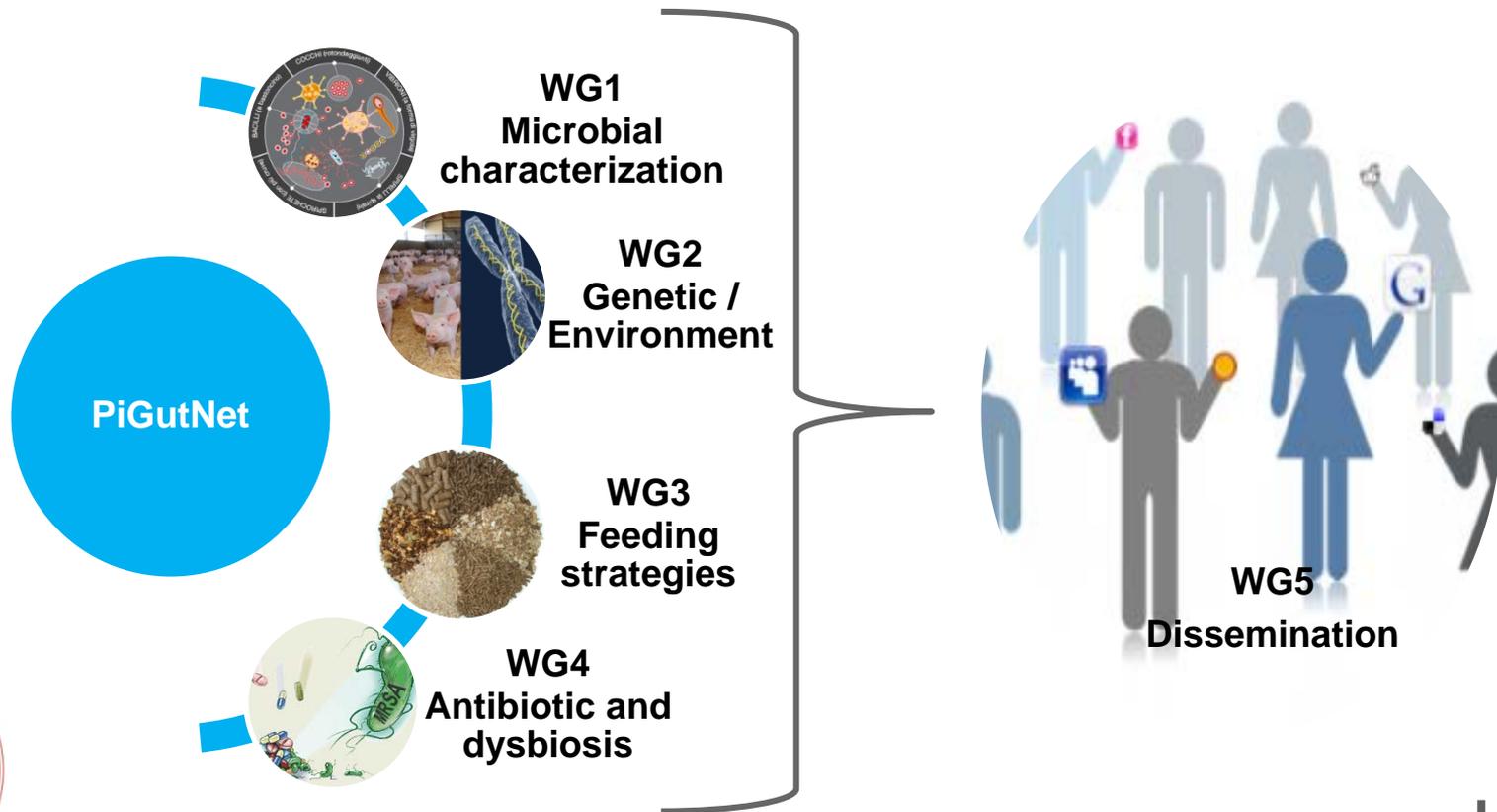
- **Feeding strategies**

Gap 4

- **Antibiotic resistance**

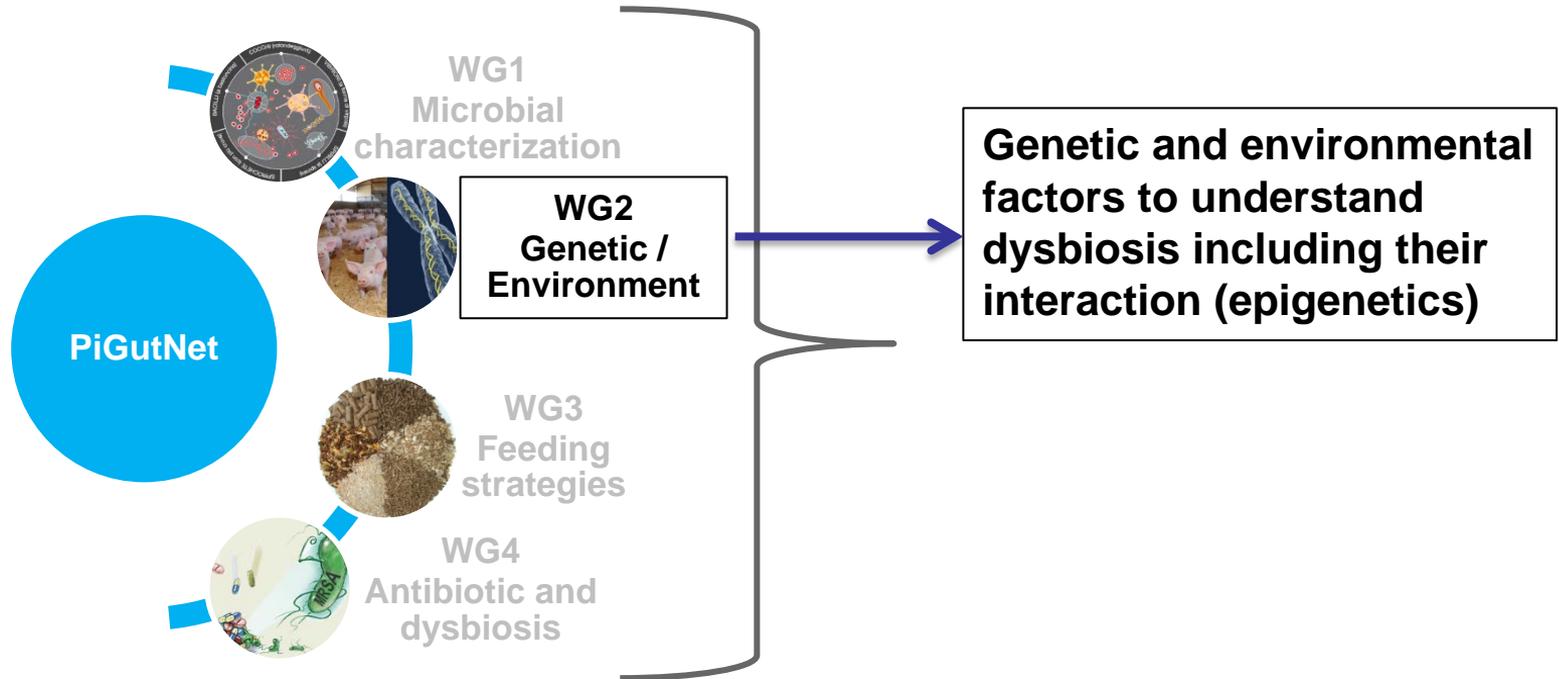


# SCIENTIFIC WORK PLAN



## Session 61 -

# Genetic and environmental factors to understand dysbiosis in the GI tract of pigs



## Session 61 - Genetic and environmental factors to understand dysbiosis in the GI tract of pigs

### Invited speaker

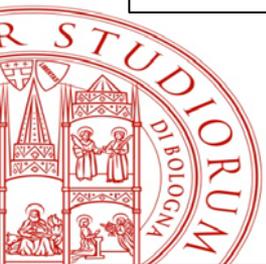
**Prof. Thomas Thymann** - Associate professor - Department of Veterinary Clinical and Animal Sciences - University of Copenhagen

**Title of the Speech:** “*Microbes, diet and host, - how do they interact in newborn piglets?*”

### Invited speaker

**Dr Jordi Estellé** - Researcher - INRA, UMR Génétique Animale et Biologie Intégrative - Jouy-en-Josas, France

**Title of the Speech:** “*The porcine gut microbiota: composition and links with host’s genetics and phenotypes*”



## Session 61

### Genetic and environmental factors to understand dysbiosis in the GI tract of pigs

#### Oral presentations:

**Hulsegge, B.** - *Delineating spatio-temporal processes in the gut mucosa of pigs*

**Maushammer, M.** - *The effect of host genetics factors on shaping pig gut microbiota*

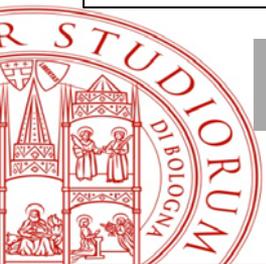
**Lauridsen, C.** - *FUT1 gene polymorphism: impact on gut microbiota, immune response and metabolomic profile of piglets*

**Motta, V.** - *The A0 blood groups effect on the porcine gut microbiota colonization*

**Leblois, J.** - *Impact of high-wheat bran diet on sows' microbiota, performances and progeny's growth and health*

**Kar, S.K.** - *Effects of dietary protein sources on intestinal and systemic responses of pigs*

**You are kindly invited to visit the poster session**



# The PiGutNet network thanks you for attending the “Session 61”

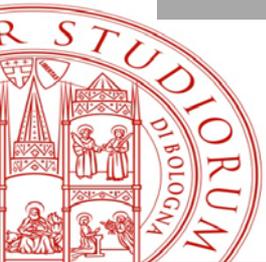
For more information on PiGutNet and to join the network:

Chair: **Prof. Paolo Trevisi** - [paolo.trevisi@unibo.it](mailto:paolo.trevisi@unibo.it)

Vice-Chair: **Prof. Jürgen Zentek** - [Juergen.Zentek@fu-berlin.de](mailto:Juergen.Zentek@fu-berlin.de)

Website:

- [www.pigutnet.eu/](http://www.pigutnet.eu/)
- [www.cost.eu/COST\\_Actions/fa/FA1401](http://www.cost.eu/COST_Actions/fa/FA1401)



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